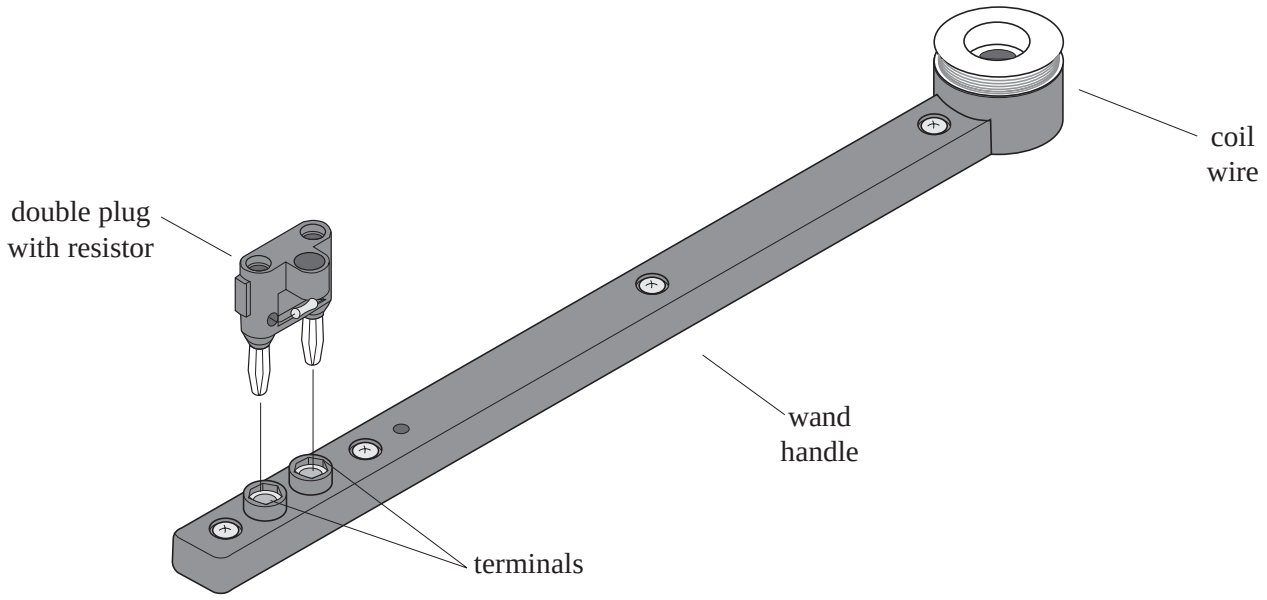
Instruction Sheet
for the PASCO
Model EM-6713

012-06242B
09/98
$1.00

2000-TURN DETECTOR COIL



Introduction

The PASCO EM-6713 2000-Turn Detector Coil is useful in demonstrations of electromagnetic induction. It can be used in combination with the PASCO EM-6711 Field Coil to verify Faraday's Law, as well as to measure the relationship between the magnitude of the induced electromotive force and the angle of the magnetic field of a field coil and a pickup coil.[1]

Equipment

The 2000-Turn Detector Coil is a wire coil on one end of a wand that has two terminals at the other end. The terminals accommodate banana plug contacts, permitting easy connection of an electric circuit. A standard double plug with a 10 kΩ resistor is included.

[1]For details of the experiment, see Christopher C. Jones. Faraday's Law apparatus for the freshman laboratory. *Am. J. Phys*. 1987; 55(12):1148–1150.

Specifications

2000 turns, #36 copper wire, approx. .13 mm diameter

Coil Dimensions:	inner diameter: 1.9 cm outer diameter: 3.8 cm
Body material:	molded ABS plastic
Total wand length:	35.7 cm
Handle dimensions:	width: 1.9 cm; height: 1.25 cm length: 31.5 cm

➤ **Caution:** Do not operate at currents exceeding 125 mA.

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Limited Warranty

PASCO scientific warrants the product to be free from defects in materials and workmanship for a period of one year from the date of shipment to the customer. PASCO will repair or replace, at its option, any part of the product which is deemed to be defective in material or workmanship. The warranty does not cover damage to the product caused by abuse or improper use. Determination of whether a product failure is the result of a manufacturing defect or improper use by the customer shall be made solely by PASCO scientific. Responsibility for the return of equipment for warranty repair belongs to the customer. Equipment must be properly packed to prevent damage and shipped postage or freight prepaid. (Damage caused by improper packing of the equipment for return shipment will not be covered by the warranty.) Shipping costs for returning the equipment, after repair, will be paid by PASCO scientific.

Equipment Return

Should the product have to be returned to PASCO scientific, for whatever reason, notify PASCO scientific by letter or phone BEFORE returning the product. Upon notification, the return authorization and shipping instructions will be promptly issued.

To Reach PASCO

For technical support, call us at 1-800-772-8700 (toll-free within the U.S.) or (916) 786-3800.

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